

Claims;

1. A punch press comprising:

a press frame² including an upper transferring and loading path¹⁷ and a lower transferring and loading path¹⁸ wherein a cartridge⁷ capable of loading a punch tool and a cartridge⁷ capable of loading the die tool corresponding to the punch tool, can freely move-in or move-out; ^{of?}

a ram³⁸ for driving the punch tool^T loaded on the upper cartridge^{AB} employed in the press frame; and

a cartridge transferring and loading means^{check spec. 19, 20} for enabling the storing and the discharging of the upper and lower cartridges independently to the inside and outside of the press frame. ^{I think he means that you can store cartridges either inside or outside the frame}

2. The punch press according to claim 1 wherein said upper and lower transferring and loading paths can store at least two cartridges in the front and back of the moving-in and moving-out direction, and the cartridge transferring and loading means can transfer the front and back cartridges independently. ^{AB} ^{AB} ^{AB} ^{AB}

3. The punch press according to claim 1 or claim 2 wherein the cartridge transferring and loading means transfers the cartridge by the transferring of the engaging member engaged to the cartridge freely engaging and disengaging along the transferring and loading path, and the transferring and loading path, and the transferring path of the engaging and disengaging member are straight lined path. ^{AB (plenal set Forth)} ^{AB 28-30} ^{AB}